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(54) **METHOD AND SYSTEM FOR
DETERMINING AND DYNAMICALLY
UPDATING A ROUTE AND DRIVING STYLE
FOR PASSENGER COMFORT**

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ABSTRACT

The disclosure provides for a method for determining a route for passenger comfort and operating a vehicle according to the determined route. To start, a set of routes from a start location to an end location may be determined. Each route includes one or more portions. For each route of the set of routes, a total motion sickness value is determined based on a sway motion sickness value, a surge motion sickness value, and a heave motion sickness value for each of the given portions. The total motion sickness value for a route reflects a likelihood that a user will experience motion sickness while in a vehicle along the route. A route may then be selected from the set of routes based on the total motion sickness value of each route of the set of routes, and the vehicle may be maneuvered according to the selected route.

